



While no fees are believed necessary for the present submission, the Commissioner is authorized to charge any required fees to the Deposit Account of the undersigned attorneys of record, which is:

**Deposit Account 12-2475.**

Respectfully submitted,

LYON & LYON LLP

Date: January 15, 2002

By: Charles M. Doyle

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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re: Various Applications (See tables below)

Assignee: NxStage Medical, Inc.

Serial Numbers: listed below

Issue/Filing Dates: listed below

RECEIVED  
JUN 03 2002  
TC 1700  
MAY 23 2002  
TC 3100 MAIL ROOM

REVOCATION AND SUBSTITUTION OF POWER OF ATTORNEY  
AND CERTIFICATE UNDER 37 C.F.R. 3.73(b)

Asst. Commissioner for Patents  
Washington, D.C. 20231

Dear Sir:

The assignee of record of the entire right, title and interest in the patents and applications listed below, NxStage Medical, Inc., having a place of business at 439 South Union St., Fifth Floor, Lawrence, MA 01843, USA, hereby revokes all previous appointments of power of attorney previously given for such patents and applications, as listed below:

Patents

Patent No.	Application No.	Patent Date	Title	Assignment Info (Reel/Frame Nos.)
6,254,567	09/512,132	July 3, 2001	Flow-Through Peritoneal Dialysis Systems and Methods with On-Line Solution Regeneration	010904/0093

Applications

Application No.	Filing Date	Title	Assignment Info (Reel/Frame Nos.)
09/027,301	Feb. 19, 1998	Hemofiltration System Including Ultrafiltrate Purification and Re-infusion System	011315/0160
60/121,733	Feb. 26, 1999	Flow-Through Peritoneal Dialysis Systems and Methods with On-Line Solution Regeneration	011315/0160

**PATENT**

09/451,238	Nov. 29, 1999	Systems and Methods for Performing Frequent Hemofiltration	010548/0965
09/512,132	Feb. 23, 2000	Flow-Through Peritoneal Dialysis Systems and Methods with On-Line Solution Regeneration	010904/0093
09/512,927	Feb. 25, 2000	Extracorporeal Circuits for Performing Hemofiltration Employing Pressure Sensing Without an Air Interface	010869/0203
09/512,929	Feb. 25, 2000	Fluid Replacement Systems and Methods for Use in Hemofiltration	010806/0038
09/513,446	Feb. 25, 2000	Compositions for Replacement Fluid and Associated Systems and Methods Usable in the Performance of Frequent Hemofiltration	010869/0983
09/513,564	Feb. 25, 2000	Systems and Methods for Detecting Air in an Arterial Blood Line of a Blood Processing Circuit	010806/0011
09/513,771	Feb. 25, 2000	Interactive Systems and Methods for Supporting Hemofiltration Therapies	010803/0665
09/513,773	Feb. 25, 2000	Fluid Processing Systems and Methods Using Extracorporeal Fluid Flow Panels Oriented Within a Cartridge	010812/0892
09/513,902	Feb. 25, 2000	Layered Fluid Circuit Assemblies and Methods for Making Them	010883/0255
09/513,910	Feb. 25, 2000	Hemofiltration Systems and Methods that Maintain Sterile Extracorporeal Processing Conditions	010868/0763
09/513,911	Feb. 25, 2000	Synchronized Volumetric Fluid Balancing Systems and Methods	010878/0194
09/513,915	Feb. 25, 2000	Systems and Methods for Controlling Blood Flow and Waste Fluid Removal During Hemofiltration	010807/0253
09/829,670	April 9, 2001	Devices for Warming Fluid and Methods of Use	011713/0448
09/862,207	May 21, 2001	Methods, Systems and Kits for the Extracorporeal Processing of Blood	009779/0558
09/894,236	June 27, 2001	Hemofiltration System	011315/0160
09/904,709	July 12, 2001	Hemodilution Cap and Methods of Use in Blood Processing Procedures	011997/0273
09/904,712	July 12, 2001	Devices and Methods for Potting a Filter for Blood Processing	011993/0332
09/905,171	July 13, 2001	Systems and Methods for Handling Air and/or Flushing Fluids in a Fluid Circuit	012203/0933
09/907,872	July 17, 2001	Hermetic Flow Selector Valve	012034/0931

The assignee of record of the entire right, title and interest in the above-listed patents and applications further appoints the members of or associates in the law firm of LYON & LYON LLP, having a place of business at 633 West Fifth Street, 47th Floor, Los Angeles, California 90071, as their attorney with full power of substitution and revocation to prosecute this

**PATENT**

application, to transact all business in the Patent and Trademark Office, in connection therewith, and with respect to said applications to receive the Letters Patent.

Please mail all correspondence in respect to the above-listed patents and applications, including notices of maintenance fees or other fees due, to:

**LYON & LYON LLP**  
**Attention: Mark A. Catan**  
**633 West Fifth Street, 47th Fl.**  
**Los Angeles, CA 90071**

and direct all telephone calls to (914) 421-4621.

**AUTHORIZATION TO INSPECT ORIGINAL PAPER**

The original of this paper is located in the file of U.S. Patent No. 6,254,567, and the public is authorized to inspect and copy the original from that patent file.

Documentary evidence of a chain of title from the original owner of each of such patents and applications is recorded in the assignment records of the U.S. Patent and Trademark Office, and is indicated above by reference to the reel and frame number for each such patent and application.

The below-signed officer of NXStage Medical, Inc. certifies that NXStage Medical, Inc. is the assignee of the entire right, title, and interest in the above-listed patents and patent applications by virtue of assignments from the inventors of the patents and applications identified above. The undersigned is empowered to sign this document on behalf of assignee NXStage Medical, Inc.

I hereby declare that all statements made herein are of my own knowledge and are true and that all statement made on information and belief are believed to be true; and further that these statements are made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the applications or any patent issuing or issued thereon.

Dated: January 9, 2002

By: Winifred L. Swan

Name: Winifred L. Swan  
Title: General Counsel